**AMENDMENTS TO THE CLAIMS** 

1. (Currently amended) A method of managing communications between service

components in a cluster-based computing environment, the cluster-based computing environment

comprising a plurality of processing nodes interconnected via a network switching system, each

of the service components being programmed on a respective one of the processing nodes, the

cluster-based computing environment being coupled to an external network, the method

comprising:

assigning to each service component a respective trustworthiness measure and a

respective criticality measure, and using the trustworthiness and criticality measures of each

service component to select a respective processing node of the cluster-based computing

environment onto which each service component should be programmed;

programming each service component onto the respective processing node of the cluster-

based computing environment selected for the service component;

configuring filter logic in the cluster-based computing environment with rules

representative of allowed inter-node communications between service components;

detecting an attempted inter-node communication between service components within the

cluster-based computing environment, the attempted inter-node communication resulting from a

service access communication received into the cluster-based computing environment from an

entity external to the cluster-based computing environment via the external network;

applying the filter logic to determine that the attempted inter-node communication is not

allowed; and

responsively blocking the attempted inter-node communication.

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2. (Original) The method of claim 1,

wherein each of the service components is associated with a respective service-access-

point (SAP) in the cluster-based computing environment; and

wherein configuring the filter logic with rules representative of allowed inter-node

communications between service components comprises configuring the filter logic with rules

indicating allowed communications between respective SAPs in the cluster-based computing

environment.

3. (Original) The method of claim 2, wherein the respective SAP of each service

component comprises an Internet Protocol address of the respective processing node on which

the service component is programmed.

4. (Original) The method of claim 3, wherein at least one of the SAPs further

comprises a port selected from the group consisting of a TCP port and a UDP port.

5. (Original) The method of claim 1,

wherein the communications between service components are packet-based; and

wherein configuring the filter logic with rules representative of allowed inter-node

communications between service components comprises configuring the filter logic with rules

each indicating an allowed combination of at least (i) a packet transport protocol, (ii) a source

address in the cluster-based computing environment and (iii) a destination address in the cluster-

based computing environment.

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6. (Original) The method of claim 1, wherein the network switching system comprises a switch, and wherein configuring filter logic in the cluster-based computing environment comprises setting up the switch to enforce the rules.

## 7. (Original) The method of claim 6,

wherein the switch comprises a packet-filtering agent and a provisioning-interface through which instructions may be provided to set up the packet-filtering agent, the switch being arranged to translate the instructions into packet-filtering logic executable by the packet-filtering agent; and

wherein setting up the switch to enforce the rules comprises providing the switch, via the provisioning-interface, with instructions representative of the rules.

8. (Original) The method of claim 6, wherein:

each inter-node communication comprises a packet including a VLAN tag; and setting up the switch to enforce the rules comprises setting up the switch with VLAN logic associating each service component with a respective VLAN tag, whereby the switch may allow a given packet to be routed to a given service component only if the VLAN tag of the given packet is associated with the given service component.

9. (Original) The method of claim 6, wherein setting up the switch to enforce the rules comprises setting up the switch with a plurality of static packet routes, each static

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packet route correlating a respective source service-access-point with a respective destination

service-access-point.

10. (Original) The method of claim 1,

wherein at least a given one of the processing nodes includes a firewall for restricting

communications with the given processing node; and

wherein configuring filter logic in the cluster-based computing environment comprises

provisioning the firewall of the given processing node to allow communications between at least

one service component programmed on the given processing node and at least one service

component programmed on another processing node.

11. (Original) The method of claim 1, wherein the attempted inter-node

communication comprises an attempted inter-node communication between antagonistic service

components.

12. (Original) The method of claim 1, wherein:

the attempted inter-node communication comprises an attempted communication of a

packet comprised of data; and

applying the filter logic to determine that the attempted inter-node communication is not

allowed comprises using the data of the packet to determine that the inter-node communication is

not allowed.

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13. (Original) The method of claim 12, wherein the data represents information

selected from the group consisting of (i) source, (ii) destination and (iii) service level.

14. (Original) The method of claim 12, wherein using the data of the packet to

determine that the attempted inter-node communication is not allowed comprises determining,

based at least in part on the data of the packet, that the attempted inter-node communication does

not satisfy any of the rules representative of allowed inter-node communications between service

components.

15. (Original) The method of claim 1, wherein the attempted inter-node

communication comprises an attempted communication of a packet from a first processing node

to a second processing node, and wherein blocking the attempted communication comprises

dropping the packet.

16. (Currently amended) A method for managing application logic in a public

computing platform, the public computing platform comprising a network of processing nodes

interconnected by a switching system, the public computing platform being coupled to an

external network, the method comprising:

receiving specifications of at least two computer-program applications, the applications

cooperatively comprising a number of application components;

generating access control rules defining allowed communications between the application

components;

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assigning to each of the application components a respective trustworthiness measure and

a respective criticality measure, and using the trustworthiness and criticality measures of the

application components to select the processing nodes of the public computing platform onto

which the application components should be loaded;

loading the application components of the at least two applications onto the selected

processing nodes at least two of the processing nodes of the public computing platform, wherein

the selected processing nodes include at least two processing nodes of the public computing

platform, whereby the processing nodes may then execute the application components; and

provisioning the public computing platform to allow inter-node communications

involving comprising the allowed communications between application components and to

disallow other inter-node communications,

wherein each inter-node communication, whether allowed or disallowed, is a

communication between processing nodes of the public computing platform resulting from an

application access communication received into the public computing platform from an entity

external to the public computing platform via the external network,

whereby, in response to an attempted communication between application components,

the public computing platform may determine that the attempted communication is not allowed

and may responsively block the attempted communication.

17. (Cancelled)

18. (Currently amended) A public computing platform comprising:

a network switching system communicatively coupled to an external network;

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a plurality of processing nodes interconnected via the network switching system;

a plurality of application components; loaded onto the processing nodes,

first logic for assigning a respective trustworthiness measure and a respective criticality

measure to each of the plurality of application components and for using the trustworthiness and

criticality measures of the plurality of application components to select processing nodes of the

public computing platform onto which the plurality of application components should be loaded;

second logic for loading the plurality of application components onto the selected

processing nodes, each application component having a respective service-access-point defining

(i) a network address of the processing node on which the application component is loaded and

(ii) a port at the processing node, the port being associated with the application component; and

third logic indicating allowed inter-node communications between application

components;

the third logic being executable, in response to an attempted inter-node communication

between application components within the public computing platform, to make a determination

of whether the attempted inter-node communication is allowed, wherein the attempted inter-node

communication occurs as a result of an application access communication received into the

network switching system via the external network; and

the third logic being executable, in response to a determination that the attempted inter-

node communication is not allowed, to block the attempted inter-node communication.

19. (Original) The public computing platform of claim 18, wherein the switching

system comprises a network switch having a packet-filtering agent, and wherein the logic is

embodied at least in part in the packet-filtering agent.

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20. (Original) The public computing platform of claim 18, wherein, for a given attempted inter-node communication between a first application component and a second application component, the logic is executable to determine whether the given attempted internode communication is allowed based at least in part on a parameter selected from the group consisting of (i) the service-access-point of the first service application component and (ii) the

21. (Original) The public computing platform of claim 18,

service-access-point of the second application component.

wherein at least a first one of the application components loaded onto a first processing node of the public computing platform is owned by a first application provider, and at least a second one of the application components loaded onto a second processing node of the public computing platform is owned by a second application provider; and

wherein the first application provider is in competition with the second application provider for business.

22. (Original) The public computing platform of claim 21, wherein the first application component is a component of a first application, the second application component is a component of a second application, and the first application and second application are competing applications.

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